Switch Fuse Units for use in Domestic Household Premises
(and other buildings)
SWITCH FUSE UNITS FOR USE IN DOMESTIC HOUSEHOLD PREMISES
BS 7671 Amendment No. 3 : 2015 IET Wiring Regulations

**REGULATION 421.1.201**
From January 2015 Amendment No. 3 to BS 7671 IET Wiring Regulations prescribe that within domestic (household) premises, consumer units and similar switchgear assemblies shall have their enclosures manufactured from non combustible material, or be enclosed in a cabinet or enclosure constructed of non combustible material and comply with product standard BS EN 61439-3.

What are Domestic Household Premises?
Typical Domestic household premises would include single and multiple occupancy homes such as Houses, Bungalows, Apartments, Student lets, Sheltered Accommodation, Farmhouses, Houseboats, Attached & Detached Garages, Workshops and Detached Outbuildings etc.

What is Similar Switchgear?
Similar switchgear is switchgear that is used for the same fundamental application i.e. a circuit protection assembly with two pole isolator and one or more circuit protection devices e.g. Fuse, MCB or RCD. Therefore similar equipment includes Switch Fuse, Garage Unit, MCB Distribution Board or PV Switchgear etc.

What is Non Combustible Material?
There are many types of non combustible material however, amendment 3 of the 17th Edition regulations provides an acceptable example as ferrous metal i.e. Steel Enclosures.

What is an Enclosure?
An enclosure means the box, cover, door, hinges, handle and any components required to maintain the integrity of the unit.

What are Cabinets?
Typical cabinets are meter cabinets that are normally built into the fabric of the building and that may or may not include consumer units and similar switchgear within. Skeleton consumer units with all metal non combustible enclosures are recommended for all such applications.

This guide to Wylex consumer units is not a suitable substitute for the standards and regulations that should always be used for all types of electrical installation design & installation work.
DOMESTIC SWITCH FUSE

Wylex Domestic Switch Fuse units are available in three ratings 60A, 80A and 100A. These dedicated sub main switch fuse units are designed to make the installation and connection of sub mains or system extensions easy.

All units have been designed, manufactured and tested to meet IEC60947-3. Wylex Domestic Switch Fuse units are supplied complete with a BS1361 fuse and are tested to the relevant clauses within BS EN 61439-3 as required by BS 7671 Amendment 3.

An un-fused version and spare fuses rated from 40A to 100A are also available.

METAL ENCLOSED

- Enclosed in a robust all metal (non combustible) enclosure
- Screw retained cover
- 32mm standard knock out for cable gland - top & bottom
- Dual screw terminals throughout
- Formed metal cover & visor; robust metal enclosure, 1.0mm thick steel
- Live and Neutral cable capacity 16mm\(^2\) min, 35mm\(^2\) max
- 16mm Earth terminating point inside enclosure
- Supplied complete with fuse (100A, 80A or 60A)
- Low smoke & fume paint finish
- Lockable mechanism for isolation safety purposes
**ALL METAL SWITCH FUSE UNIT - FOR USE IN DOMESTIC HOUSEHOLD PREMISES**

<table>
<thead>
<tr>
<th>CAT REF</th>
<th>Description</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSF100M</td>
<td>Switch Fuse including fuse</td>
<td>100A</td>
</tr>
<tr>
<td>DSF80M</td>
<td>Switch Fuse including fuse</td>
<td>80A</td>
</tr>
<tr>
<td>DSF60M</td>
<td>Switch Fuse including fuse</td>
<td>60A</td>
</tr>
<tr>
<td>DSFNFM</td>
<td>Switch Fuse - Unfused</td>
<td>100A max.</td>
</tr>
<tr>
<td>EIU</td>
<td>Cable gland for meter tails</td>
<td>16/25mm²</td>
</tr>
</tbody>
</table>

- Enclosed in a robust all metal enclosure
- 32mm diameter standard knock out for cable gland (top & bottom)
- Metal door and robust metal enclosure, 1.0mm thick steel with low smoke & fume Epoxy paint finish
- Live and Neutral cable capacity 16mm² min 35mm² max
- 16mm Earth terminating point inside enclosure
- Replacement HRC Fuses
  - DSF040FL (40A) DSF045FL (45A) DSF050FL (50A)
  - DSF060FL (60A) DSF080FL (80A) DSF0100FL (100A)
- Lockable for safe isolation
- Rotating fuse carrier for easy withdrawal
**INSULATED SWITCH FUSE UNIT - FOR USE IN OTHER (NON DOMESTIC) PREMISES**

<table>
<thead>
<tr>
<th>CAT REF</th>
<th>Description</th>
<th>Ampere</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSF100</td>
<td>Switch Fuse including fuse</td>
<td>100A</td>
</tr>
<tr>
<td>DSF80</td>
<td>Switch Fuse including fuse</td>
<td>80A</td>
</tr>
<tr>
<td>DSF60</td>
<td>Switch Fuse including fuse</td>
<td>60A</td>
</tr>
<tr>
<td>DSFNF</td>
<td>Switch Fuse - Unfused</td>
<td>100A max.</td>
</tr>
</tbody>
</table>

- Bussman cartridge fuse included with device
- Twin terminal screw connections
- Live and Neutral cable capacity 16mm² min, 35mm² max
- In built meter cable guides - clamps
- Fuse cover inside carrier preventing accidental contact
- Lockable switch mechanism for safe isolation

Replacement HRC Fuses
- DSF040FL (40A) DSF045FL (45A) DSF050FL (50A)
- DSF060FL (60A) DSF080FL (80A) DSF0100FL (100A)
Cartridge fuse is included with Switch fuse. Fuse fully fingerproofed.

Easy open rotary fuse drawer

Automatically disconnects the fuse from its holder

16mm Earth terminating point inside enclosure

With seal facility on terminal screw covers and lockable main switch

Easy access for removal of fuse

Built in twin terminal screw connections

Simple process to replace fuse

Retained cover closure screw

Cartridge fuse is included with Switch fuse. Fuse fully fingerproofed.
TIME-CURRENT CURVE CHARACTERISTICS

CUT-OFF CURRENT CURVES

FUSE LINKS SPECIFICATION
Class of Operation: gG
Standards/approvals: • ASTA Certified
• BS 1361 : 1971 including amendments 1, 2 and 3

TECHNICAL DATA
Rated Voltage: 415Vac
Amps: 5 to 100A
Rated breaking capacity: 33kA

FUSE LINKS DATA
<table>
<thead>
<tr>
<th>CAT REF</th>
<th>AMP RATING</th>
<th>ℓt (AMP* SECONDS)</th>
<th>PRE-ARCING</th>
<th>TOTAL at 240V</th>
<th>TOTAL at 415V</th>
<th>NOM. WATTS LOSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSF040FL</td>
<td>40</td>
<td></td>
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RECOMMENDED TIGHTENING TORQUES

<table>
<thead>
<tr>
<th>Component</th>
<th>Live and Neutral terminal cage</th>
<th>Earth Terminal cage</th>
<th>Earth Terminal bar (metal clad only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.3Nm</td>
<td>0.7Nm</td>
<td>1.2Nm</td>
<td></td>
</tr>
<tr>
<td>16mm² min</td>
<td>16mm² max</td>
<td>16mm² max</td>
<td></td>
</tr>
<tr>
<td>35mm² max</td>
<td>16mm² max</td>
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</tbody>
</table>

ALL METAL SWITCH FUSE UNIT

INSULATED SWITCH FUSE UNIT

RECOMMENDED TIGHTENING TORQUES